UNIVERSAL SERIAL BUS

USBdock

MODEL VP-8058
MODEL VP-8058L
MODEL VP-8258

USB Docking Kit for use with Mobile Rack Removable Docking Modules with 3.5"/2.5" HDD or Optional zip™/SuperDisk™ LS-120/MO/TR-4 Tape, Digital Film Memory Reader or CD-ROM drives

Installation Manual

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1-1 Introduction

Congratulations on your purchase of the USBdock docking kit. The USBdock is an external USB interface adapter which is designed to enable hot-swap, plug-and-play operation of Enhanced IDE or ATA/ATAPI devices through the USB interface on any USB-equipped computer. The USBdock's 50-pin Centronics connector is designed for use with external devices using the same connector type (such as CD-ROM) and the Mobile Rack drive case, which provides the perfect solution for data backup and transporting of data between computers using hard disk drives, zip drives, LS-120 drives, MO drives, tape drives, digital film readers and more.

The USBdock connects to any notebook,iMac, Net-PC, Micro ATX PC, LCD panel PC, Mac and PC desktop computer equipped with a USB port. The USBdock allows you to easily hot-swap various types of drives mounted in the Mobile Rack without interrupting the computer's current operation.

This manual will guide you through the hardware installation of the following USBdock models:

Model VP-8058 USBdock Docking Kit with Mobile Rack (VP-10LSF)
Model VP-8058L USBdock Docking Kit (without Mobile Rack)

1-1.1 USBdock Features

- Enables hot-swap Plug-and-Play operation of ATA (IDE) and ATAPI devices with computers using the USB interface
- Complies with USB specification V1.1 and USB Mass Storage Specification V1.0 High Speed USB 12Mbits/sec Bulk mode transfer which yields overall 1.1 MBytes/sec burst transfer rate
- High performance embedded processor to reduce firmware overhead dual (ping-pong) buffer to minimize bus latency
- Intelligent interface uses no host CPU resources to control/monitor time-consuming drive phases other than data transfer
- Embedded MacOS and Windows 2000 drivers support Plug-and-Play without additional driver installation
- Proprietary Windows driver supports most devices
- Universal firmware supports all devices, automatic detection for ATA or ATAPI protocol
- Available in various board form factors for specific applications
- Perfect for adding/sharing external storage devices between computers using the USB interface
- Actual data rate may vary depending on bus utilization and device response time

1-1.2 ATA/ATAPI Device Compatibility

- ATAPI removable drives: Iomega Zip 100MB/250MB and Clik!, LS-120 Super Floppy, Sony HiFD 200MB, MO drives, tape drives
- Enhanced IDE and ATA hard drives: both 2.5" and 3.5" form factors, any capacity
- ATAPI CD-ROM drives: CD-ROM, CD-R, CD-RW, DVD drives, compatible with all major CD-RW software
- ATA removable media drives: SyQuest SyFlyer, SparQ and Syjet, Castlewood ORG. Supports media change and disk ejection

1-1.3 Power Requirements

- +5V devices: +5V devices can draw power directly through the USB port connection, the +5V/+12V power adapter, or an optional +5V power adapter
- +5V/+12V devices: +5V/+12V devices require the use of a +5V +12V AC/DC power adapter (included)

Typical power requirements for ATA/ATAPI device types:

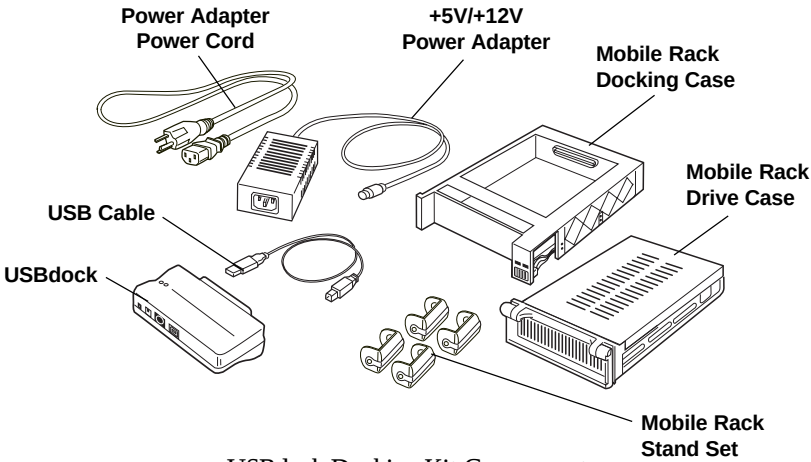
Drive Type	+5V	+5V/+12V
Zip	X	
LS-120 SuperDisk	X	
MO	X	
Tape		X
2.5" HD	X	
3.5" HD		X
CD-ROM		X

IMPORTANT
It is recommended that the +5V/+12V power adapter be used for *all* devices whenever possible to avoid any power problems.

1-1.4 Unpacking Your USBdock

Before installing the USBdock, verify that the following items are included in the carton. If any parts are damaged or missing, please contact your local dealer or sales representative immediately.

- One USBdock interface unit
- One +5V +12V AC/DC power adapter and power cord
- One USB cable
- One Mobile Rack Stand Set (4 pieces)
- One Windows 98 software driver diskette
- One Mobile Rack (VP-10LSF) (for Model VP-8058 only)



USBdock Docking Kit Components

2-1 Installation

The following sections will guide you through the setup of the USBdock for operation.

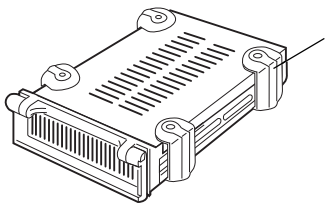
- For Windows® 98: Please refer to the software installation manual to install the Windows® 98 driver.
- For use with the Mobile Rack: please refer to the Mobile Rack Installation manual for instructions for installing devices in the Mobile Rack drive case.

2-1.1 Install Driver Software (For Windows 98 only)

No driver is needed if you are running Windows 2000 or Mac OS. However, *before* connecting the USBdock to your system, Windows 98 users must install the driver provided on the software driver diskette. Please refer to the *Software Installation Manual* for instructions.

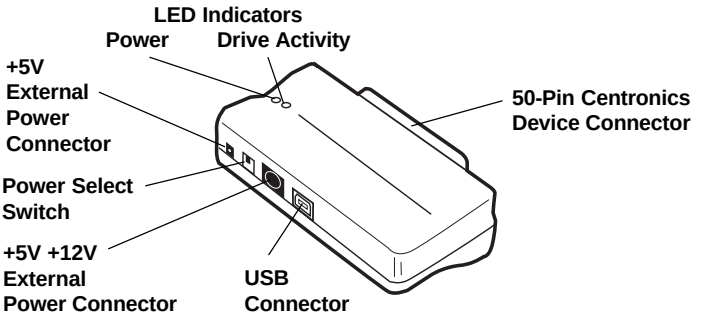
2-1.2 Install Stand Set on Mobile Rack

A 4-piece stand set is included to help heat dissipation and provide secure placement of the Mobile Rack. After mounting the device in the Mobile Rack, slide a stand pad onto each corner .



Mobile Rack Stand Set Installed

2-1.3 Setting Up the USBdock for Operation

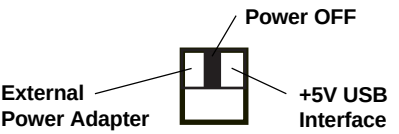


USBdock Power Select Switch & Connector Locations

Perform the following steps (in the order given) to set up the USBdock with your peripheral device for operation:

1. For Windows 98 users: verify that the Windows 98 driver is installed.
2. Plug the USBdock's 50-pin Centronics connector into the connector on the device you plan to connect to your computer.
   a. External devices that provide a 50-pin Centronics interface connector support direct connection with the USBdock.
   b. Internal devices such as EIDE hard drives or ATA/ATAPI devices can be mounted in the Mobile Rack drive case. (Refer to the Mobile Rack manual for instructions on mounting these devices in a Mobile Rack.)

> IMPORTANT
> Make sure the Power Select switch on the USBdock is set to the MIDDLE power OFF position before proceeding.



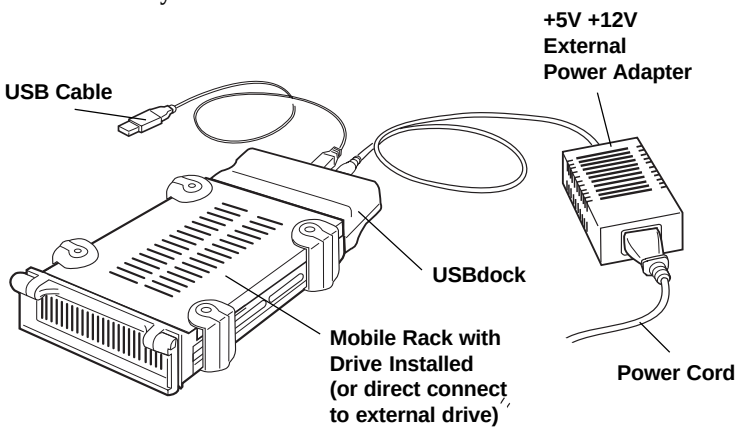
USBdock Power Select Switch Settings

3. Using the +5V/+12V AC/DC Power Adapter:
   a. With the Power Select switch in the OFF (MIDDLE) position, plug in the 6-pin connector-end of the power adapter into its corresponding +5V/+12V power-in connector on the USBdock.
   b. Plug one end of the power cord into the power adapter and the other end into an AC power source outlet.
4. Set the Power Select Switch to an ON position:
   a. When using the *external* power adapter, set the switch to the LEFT position. (Note that the green LED on the USBdock should be lit, indicating power ON.) This allows the device to warm up before connecting to the USB port.

> IMPORTANT
> All drive devices must be powered up and ready to use *before* plugging into the computer's USB port.

   b. When using the USB interface for power, set switch to the RIGHT position. *Note: it is recommended to use the +5V/+12V power adapter whenever possible.*
5. Plug one end of the USB cable into the USB port on your computer; plug the other end into the USB port on the USBdock.
6. Viewing the screen, note that the plug-and-play feature will recognize the new device and assign it as a new drive. Hard disk drive partitions will also be auto-detected and assigned drive letters.

The device is now ready to use.



USBdock Connections for Operation

3-1 Disconnecting the USBdock

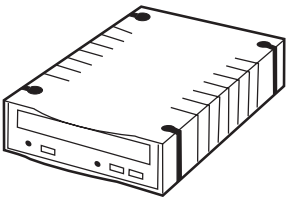
Perform the following steps to disconnect the USBdock from your computer.

1. Turn off the power by sliding the Power Select Switch to the MIDDLE OFF position. (Note that the drive icon will disappear from the computer screen.)
2. Unplug the USB port connector from the USBdock.
3. You can now switch to another device. When connecting a new device, be sure to follow the same sequence for setup as previously outlined in section 2-1.3.

4-1 Accessories

Model VP-6020

CD-ROM Box Enclosure



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